

Fremont

Building Official

Code Enforcement

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Gas Piping

Information relating to gas piping to one-two family residences, residential townhouses, and residential apartment buildings.

- A permit is required for all gas piping work; to include propane tank placements.
- Steel and Wrought Iron pipe of minimum standard weight (sch40) and corrugated stainless steel tubing (CSST) are preferred solutions for installations within the residence. Other steel –cast iron, copper, brass, aluminum or aluminum alloys are not permitted. (copper tubing, while permitted by code is not a preferred choice)

Copper tubing may be used as a repair practice to existing copper tubing but should not be used for new installations, expansions or extensions. If inadequate the existing system should be replaced with iron or CSST.

- Plastic pipe, tubing, and fittings shall be used outside underground only. requires an electronic tracer wire to be buried with piping – min 14 awg (or tape w/continuous foil backing for tracing) and must be brought above ground at the building wall or riser.
- Installation, testing and replacement of gas piping, gas utilization equipment, or accessories and repair and servicing of equipment, shall be performed only by a qualified agency. (directly from NFPA 54 - 4.1)
- When CSST is the primary method of installation, a distribution manifold at the point of delivery with parallel branch line installations is the preferred practice. For residential installations no short leads or unnecessary couplings are allowed; in most all instances direct feeds are obtainable. For residential installations no couplings are allowed in concealed locations (or areas likely to become concealed). A shut-off at each manifold distribution provides the greatest flexibility of use. A shut-off at the service entrance to the building is required.
- A piping plan showing the proposed location, size of branches, various loads demands, and the location of the point of delivery may be required.
- Pressure testing and the installation of an “approval sticker” is required prior to connection to gas service/tanks. The test pressure used shall be no less than 1 ½ times the operating pressure, but in no case less than 3 psi. Test duration for single family dwelling is a minimum of 10 minutes. Mechanical gauges used for testing shall be such that the scale range cannot be greater than 5 times the test pressure (ex. for a 3 psi test the maximum scale reading on the gauge would be 15 psi or less.)